

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122
8-8-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool BLINERRY Formation BLINERRY County LEA
Initial X Annual _____ Special _____ Date of Test 1-20-59
Company J. W. PEERY Lease LOCKHART Well No. 1
Unit L Sec. 17 Twp. 21-S Rge. 37-E Purchaser El Paso Natural Gas Company
Casing 5-1/2 Wt. 14 & 15 I.D. _____ Set at 6600 Perf. 5658 To 5926
Tubing 2 Wt. 4.7 I.D. _____ Set at 6383 Perf. 5658 To _____
Gas Pay: From 5658 To 5958 L 5400 0.692 Assumed -GL 3875 Bar. Press. 13.2
Producing Thru: Casing _____ Tubing X Type Well Gas-Oil Dual
Date of Completion: 1-16-59 Packer 6080 Single-Bradenhead-G. G. or G.O. Dual
Reservoir Temp. _____

OBSERVED DATA

Tested Through (Prover) (Choke) (Meter) Type Taps _____

No.	Flow Data			Tubing Data		Casing Data		Duration of Flow Hr.
	(Prover) (Line) Size	(Choke) (Orifice) Size	Press. psig	Diff. h _w	Temp. °F.	Press. psig	Temp. °F.	
SI								
1.	2	0.875	175		23	1560	1745	3
2.	2	0.875	215		20	1370	1660	3
3.	2	0.875	265		22	1172	1575	3
4.	2	0.875	345		26	885	1425	3
5.								

FLOW CALCULATIONS

No.	Coefficient (24-Hour)	$\sqrt{h_{wpf}}$	Pressure psia	Flow Temp. Factor F _t	Gravity Factor F _g	Compress. Factor F _{pv}	Rate of Flow Q-MCFPD @ 15.025 psia
1.	16.7816		189.2	1.0376	.9312	1.000	2.067
2.	16.7816		228.2	1.0408	.9312	1.000	2.722
3.	16.7816		278.2	1.0387	.9312	1.000	4.516
4.	16.7816		358.2	1.0344	.9312	1.000	5.770
5.							

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
Gravity of Liquid Hydrocarbons 48 deg.
F_c Measured (1-e^{-s})
Specific Gravity Separator Gas _____
Specific Gravity Flowing Fluid _____
P_c 1889.2 P_c 3569.1

No.	P _w (psia)	P _t ²	F _c Q	(F _c Q) ²	(F _c Q) ² (1-e ^{-s})	P _w ²	P _c ² -P _w ²	Cal. P _w	P _w /P _c
1.	1375.2	2474.9	Measured			3891.9	477.8		
2.	1383.2	2913.2	"			2799.6	769.5		
3.	1190.2	1416.6	"			2522.4	1046.7		
4.	898.2	806.8	"			2068.4	1500.7		
5.									

Absolute Potential: 10,200 MCFPD; n 0.657

COMPANY J. W. PEERY
ADDRESS P.O. Box 655, Odessa, Texas
AGENT and TITLE O. F. Hedrick Engineer
WITNESSED M. Overton
COMPANY Peck Oil Company

REMARKS

INSTRUCTIONS

This form is to be used for reporting multi-point back pressure tests on gas wells in the State, except those on which special orders are applicable. Three copies of this form and the back pressure curve shall be filed with the Commission at Box 871, Santa Fe.

The log log paper used for plotting the back pressure curve shall be of at least three inch cycles.

NOMENCLATURE

- Q = Actual rate of flow at end of flow period at W. H. working pressure (P_w).
MCF/da. @ 15.025 psia and 60° F.
- P₇₂ = 72 hour wellhead shut-in casing (or tubing) pressure whichever is greater.
psia
- P_s = Static wellhead working pressure as determined at the end of flow period.
(Casing if flowing thru tubing, tubing if flowing thru casing.) psia
- P_f = Flowing wellhead pressure (tubing if flowing through tubing, casing if
flowing through casing.) psia
- P_m = Meter pressure, psia.
- h_m = Differential meter pressure, inches water.
- F_g = Gravity correction factor.
- F_t = Flowing temperature correction factor.
- F_{sc} = Supercompressibility factor.
- n = Slope of back pressure curve.

Note: If P_w cannot be taken because of manner of completion or condition of well, then P_w must be calculated by adding the pressure drop due to friction within the flow string to P_t .

ILLEGIBLE

ALL INFORMATION CONTAINED
HEREIN IS UNCLASSIFIED

DATE 10-10-2001 BY SP-6 BJS/STP

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